



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No. : 6,808,125 B2  
Appl. No. : 09/844,273 Confirmation No. 1054  
Applicant : Siegfried RUTHARDT et al.  
Issued : October 26, 2004  
Filed : April 30, 2001  
TC/A.U. : 3752  
Examiner : D. Gorman  
  
Docket No. : R.37659  
Customer No. : 02119

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Date: March 4, 2005

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(i),  
AND EXPLANATION OF THE RELEVANCE OF THE CITED PRIOR ART**

Sir:

The undersigned hereby requests that the prior art cited on the attached prior art statement be placed of record in the application file.

This citation of prior art is made under 37 CFR 1.97(i), since it is being filed after the patent has come to issue.

This prior art citation is being submitted under 37 CFR 1.97(i) because the prior art did not come to the attention of the undersigned until a time such that 37 CFR 1.97(e) precluded consideration under 37 CFR 1.97(d).

The undersigned asserts that the prior art cited on the attached form 1449 has been compared to the allowed claims, and that the prior art cited on this form 1449 is not materially closer to the claimed subject matter than is the prior art which the examiner has already considered.

The relevance of the prior art cited on the attached form 1449 is as follows:

App. No. 09/844,273  
IDS filed March 4, 2005  
After Patent has Issued

**US 5,577,667**

This patent teaches a fuel injection valve for intermittent fuel injection into the combustion space of a combustion engine. The valve comprises an injection valve indirectly actuated electromagnetically by a hydraulic amplifier. The opening motion of the injection valve element remains limited at low and medium injection pressures. The opening motion of the injection valve element is substantially more rapid and the opening path of the injection valve element is substantially larger at high injection pressure than it is at a low to medium injection pressure. It is possible to operate the engine over the complete load and rotational speed range under optimum injection conditions.

**DE 44 27 378 A1**

According to the teachings of this patent, the rod (11) of a piston (7, Fig. 1), which effects needle lift when a solenoid valve (9) relieves the closing pressure on the piston, is coupled to the nozzle needle (3) by a coupling including a sleeve (17). The coupling may comprise half shells (15, 16) retained engaging recesses in the ends of the parts (3, 11) by the sleeve (17) which is biased by the needle closing spring (17). The coupling may also take other forms (Figs. 3 to 5).

**GB 2 291 934 A**

This patent is in the same family as DE 44 27 378 A1 and is provided as an aid.

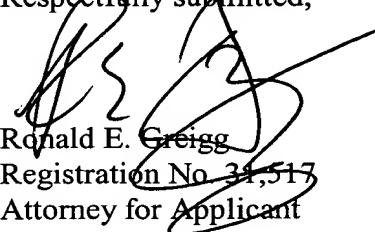
**EP 0 604 915 A1**

This publication teaches a device for adjusting a fuel injector electromagnetic metering valve. The valve comprises a shutter (67) for the drain conduit (63) of a control

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After Patent has Issued

chamber (61) of an injector; an electromagnet (42) having a fixed core (46), and an armature (43) controlling the shutter (67). The armature is normally pushed by a return spring (86) for maintaining the drain conduit (63) closed by the shutter (67). The device for adjusting the travel of the armature (43) comprises a plate (72) which is fitted to the body (6) of the injector by means of a sleeve (41) and via the interposition of two sets of calibrated washers (74). The plate (72) presents a stop element (76) against which a contact element (77) integral with the armature (43) is arrested. This prevents the armature (43) from contacting the core (46).

Respectfully submitted,

  
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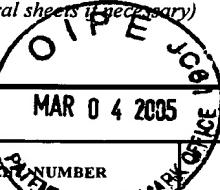
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## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



MAR 04 2005

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,577,667	11-26-1996	Marco A. GANSER			

## U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	DE 44 27 378 A1	02-08-1996	Germany			✓	
	GB 2 291 934 A	02-07-1996	United Kingdom			✓	
	EP 0 604 915 A1	07-06-1994	European			✓	

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*


## EXAMINER

## DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.